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121 Virtual enterprise access control requirements   ■
M. Coetzee, Jan H. P. Eloff
September 2003 **Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology SAICSIT '03**
Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available: 📄 pdf(126.63 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Current developments in IT point towards the formation of loosely coupled enterprises, often referred to as virtual enterprises. These enterprises require both secure and flexible collaboration between unrelated information systems. Web services technology can be used as an ideal platform for realising virtual enterprises throughh their ease of integration, flexibility, and support of XML vocabularies. To ensure the successful implementation of Web services within virtual enterprises, new approa ...

> **Keywords**: B2B, SOAP, XML, access control, design, federation, management, roles, security, standardization, trust, virtual enterprises, web services

122 Language-based security: Dynamic label binding at run-time   ■
Yolanta Beres, Chris I. Dalton
August 2003 **Proceedings of the 2003 workshop on New security paradigms NSPW '03**
Publisher: ACM Press
Full text available: 📄 pdf(727.41 KB)   Additional Information: full citation, abstract, references

> Information flow control allows enforcement of end-to-end confidentiality policies but has been difficult to put in practice. This paper introduces a pragmatic new approach for tracking information flow while the process is running at the same time applying dynamic label binding. The underlying implementation mechanism uses machine code instruction stream modification to track individual data movements and manipulations within the address space of an application. This gives the ability to precis ...

> **Keywords**: data labeling, information flow control, labels

123 Policy management using access control spaces   ■
Trent Jaeger, Xiaolan Zhang, Antony Edwards

August 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6
Issue 3
Publisher: ACM Press

Full text available: pdf(360.69 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

We present the concept of an *access control space* and investigate how it may be useful in managing access control policies. An access control space represents the permission assignment state of a subject or role. For example, the set of permissions explicitly assigned to a role defines its *specified* subspace, and the set of constraints precluding assignment to that role defines its *prohibited* subspace. In analyzing these subspaces, we identify two problems: (1) often a signi ...

Keywords: Access control models, authorization mechanisms, role-based access control

124 <u>Towards a resource for lexical semantics: a large German corpus with extensive semantic annotation</u>
Katrin Erk, Andrea Kowalski, Sebastian Padó, Manfred Pinkal
July 2003   **Proceedings of the 41st Annual Meeting on Association for Computational Linguistics - Volume 1 ACL '03**
Publisher: Association for Computational Linguistics
Full text available: pdf(127.42 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

We describe the ongoing construction of a large, semantically annotated corpus resource as reliable basis for the large-scale acquisition of word-semantic information, e.g. the construction of domain-independent lexica. The backbone of the annotation are semantic roles in the frame semantics paradigm. We report experiences and evaluate the annotated data from the first project stage. On this basis, we discuss the problems of vagueness and ambiguity in semantic annotation.

125 <u>Logical and physical design issues for smart card databases</u>
Cristiana Bolchini, Fabio Salice, Fabio A. Schreiber, Letizia Tanca
July 2003   **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 3
Publisher: ACM Press

Full text available: pdf(1.12 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The design of very small databases for smart cards and for portable embedded systems is deeply constrained by the peculiar features of the physical medium. We propose a joint approach to the logical and physical database design phases and evaluate several data structures with respect to the performance, power consumption, and endurance parameters of read/program operations on the Flash-EEPROM storage medium.

Keywords: Design methodology, access methods, data structures, flash memory, personal information systems, smart card

126 <u>A portable Virtual Machine target for Proof-Carrying Code</u>
Michael Franz, Deepak Chandra, Andreas Gal, Vivek Haldar, Fermín Reig, Ning Wang
June 2003 **Proceedings of the 2003 workshop on Interpreters, virtual machines and emulators IVME '03**
Publisher: ACM Press
Full text available: pdf(285.85 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Virtual Machines (VMs) and Proof-Carrying Code (PCC) are two techniques that have been used independently to provide safety for (mobile) code. Existing virtual machines, such as the Java VM, have several drawbacks: First, the effort required for safety verification is

considerable. Second and more subtly, the need to provide such verification by the code consumer inhibits the amount of optimization that can be performed by the code producer. This in turn makes just-in-time compilation surprising ...

127 Constraints: On context in authorization policy

Patrick McDaniel

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies SACMAT '03**

Publisher: ACM Press

Full text available: pdf(316.39 KB)   Additional Information: full citation, abstract, references, citings, index terms

Authorization policy infrastructures are evolving with the complex environments that they support. However, the requirements and technologies supporting context are not yet well understood. Often implemented as condition functions or predefined attributes, context is used to more precisely control when and how policy is enforced. This paper considers context requirements and services in authorization policy. The properties and security requirements of context evaluation are classified. A key obs ...

Keywords: authorization, context, distributed systems, policy, policy-oriented programming, security requirements

128 Open hypermedia and the web: Xspect: bridging open hypermedia and XLink

Bent G. Christensen, Frank Allan Hansen, Niels Olof Bouvin

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available: pdf(288.32 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper evaluates the XLink format in comparison with other linking formats. The comparison is based on Xspect, an implementation of XLink. Xspect handles transformation between an open hypermedia format (OHIF) and XLink, and the paper discusses this isomorphic transformation and generalises it to include another open hypermedia format, FOHM. The Xspect system, based on XSLT and Javascript, provides users with an interface to browse and merge linkbases. Xspect supports navigational hypermedia ...

Keywords: FOHM, OHIF, SVG, XLink, XPointer, Xspect, annotations, open hypermedia

129 Better public policy through natural language information access

Boris Katz, Roger Hurwitz, Jimmy J. Lin, Ozlem Uzuner

May 2003 **Proceedings of the 2003 annual national conference on Digital government research dg.o '03**

Publisher: Digital Government Research Center

Full text available: pdf(73.23 KB)   Additional Information: full citation, abstract, references

Federal agencies implement laws passed by the Congress by creating rules and regulations that can be applied in practice. During this process, staffs at the various agencies may review past and current regulations and receive comments from stakeholders and the public regarding the proposed regulations.Putting rulemaking online can increase the public's awareness of the proposed rules and its participation in the process. It can also facilitate staff work. A key factor in realizing these benefits ...

130
Ownership types for safe region-based memory management in real-time Java

Chandrasekhar Boyapati, Alexandru Salcianu, William Beebee, Martin Rinard
May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation PLDI '03**, Volume 38 Issue 5
Publisher: ACM Press

Full text available: pdf(375.18 KB)   Additional Information: full citation, abstract, references, citings, index terms

The Real Time Specification for Java (RTSJ) allows a program to create real-time threads with hard real-time constraints. Real-time threads use region-based memory management to avoid unbounded pauses caused by interference from the garbage collector. The RTSJ uses runtime checks to ensure that deleting a region does not create dangling references and that real-time threads do not access references to objects allocated in the garbage-collected heap. This paper presents a static type system that ...

Keywords: encapsulation, ownership types, real-time, regions

131 Web cache prefetching as an aspect: towards a dynamic-weaving based solution

Marc Ségura-Devillechaise, Jean-Marc Menaud, Gilles Muller, Julia L. Lawall
March 2003 **Proceedings of the 2nd international conference on Aspect-oriented software development AOSD '03**
Publisher: ACM Press

Full text available: pdf(1.08 MB)   Additional Information: full citation, abstract, references, citings, index terms

Given the high proportion of HTTP traffic in the Internet, Web caches are crucial to reduce user access time, network latency, and bandwidth consumption. Prefetching in a Web cache can further enhance these benefits. For the best performance, however, the prefetching policy must match user and Web application characteristics. Thus, new prefetching policies must be loaded dynamically as needs change.Most Web caches are large C programs, and thus adding one or more prefetching policies to an exist ...

Keywords: Web caches, adaptable software, aspect-oriented programming, code instrumentation, pointcut language

132 Flexible reference trace reduction for VM simulations

Scott F. Kaplan, Yannis Smaragdakis, Paul R. Wilson
January 2003 **ACM Transactions on Modeling and Computer Simulation (TOMACS),** Volume 13 Issue 1
Publisher: ACM Press

Full text available: pdf(415.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

The unmanageably large size of reference traces has spurred the development of sophisticated trace reduction techniques. In this article we present two new algorithms for trace reduction: *Safely Allowed Drop* (SAD) and *Optimal LRU Reduction* (OLR). Both achieve high reduction factors and guarantee *exact simulations* for common replacement policies and for memories larger than a user-defined threshold. In particular, simulation on OLR-reduced traces is accurate for the LRU repla ...

Keywords: cache hierarchies, locality, reference traces, trace compression, trace reduction

133 Robustness: Defensive programming: using an annotation toolkit to build DoS-resistant software

Xiaohu Qie, Ruoming Pang, Larry Peterson
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press

Full text available: pdf(2.13 MB)

Additional Information: full citation, abstract, references, cited by, index terms

This paper describes a toolkit to help improve the robustness of code against DoS attacks. We observe that when developing software, programmers primarily focus on functionality. Protecting code from attacks is often considered the responsibility of the OS, firewalls and intrusion detection systems. As a result, many DoS vulnerabilities are not discovered until the system is attacked and the damage is done. Instead of reacting to attacks after the fact, this paper argues that a better solution i ...

134 The code of many colors: relating threads to code and shared state

Dean F. Sutherland, Aaron Greenhouse, William L. Scherlis
November 2002 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2002 ACM SIGPLAN-SIGSOFT workshop on Program analysis for software tools and engineering PASTE '02**, Volume 28 Issue 1
Publisher: ACM Press

Full text available: pdf(165.67 KB)

Additional Information: full citation, abstract, references, citings, index terms

We introduce a thread colors model as a way to express design intent concerning the relationships between threads, executable code, and shared state. By expressing the model as annotations in code, it is possible to formally link the model with source code and to analyze the consistency of model and code in a composable manner. By using annotations as cut-points, APIs can be annotated and compliance with library threading policies can be evaluated. This is illustrated using case study examples f ...

Keywords: Java, design intent, multi-threaded programming, race conditions

135 Understanding BGP misconfiguration

Ratul Mahajan, David Wetherall, Tom Anderson
August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '02**, Volume 32 Issue 4
Publisher: ACM Press

Full text available: pdf(312.33 KB)

Additional Information: full citation, abstract, references, citings, index terms

It is well-known that simple, accidental BGP configuration errors can disrupt Internet connectivity. Yet little is known about the frequency of misconfiguration or its causes, except for the few spectacular incidents of widespread outages. In this paper, we present the first quantitative study of BGP misconfiguration. Over a three week period, we analyzed routing table advertisements from 23 vantage points across the Internet backbone to detect incidents of misconfiguration. For each incident we ...

136 Secure program partitioning

Steve Zdancewic, Lantian Zheng, Nathaniel Nystrom, Andrew C. Myers
August 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 3
Publisher: ACM Press

Full text available: pdf(497.12 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents secure program partitioning, a language-based technique for protecting confidential data during computation in distributed systems containing mutually untrusted hosts. Confidentiality and integrity policies can be expressed by annotating

programs with security types that constrain information flow; these programs can then be partitioned automatically to run securely on heterogeneously trusted hosts. The resulting communicating subprograms collectively implement the original p ...

Keywords: Confidentiality, declassification, distributed systems, downgrading, integrity, mutual distrust, secrecy, security policies, type systems

137 Session 11A: coordination and cooperation II: Multi-agent policies: from centralized ones to decentralized ones
Ping Xuan, Victor Lesser
July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3 AAMAS '02**
Publisher: ACM Press
Full text available: pdf(176.70 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we divide multi-agent policies into two categories: centralized ones and decentralized ones. They reflect different views of multi-agent systems and different decision-theoretic underpinnings. While the centralized policies specify the decision of the agents according to the global system state, the decentralized policies, which correspond to the decisions of situated agents, must assume only a partial knowledge of the system in each agent and must deal with communication explicitl ...

Keywords: action selection and planning, agent comm languages and protocols, cooperation, coordinating multi agents & activities, methodologies and tools

138 Access Control Policies and Specifications: Managing access control policies using access control spaces
Trent Jaeger, Antony Edwards, Xiaolan Zhang
June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies SACMAT '02**
Publisher: ACM Press
Full text available: pdf(128.94 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present the concept of an *access control space* and investigate how it may be useful in managing access control policies. An access control space represents the permission assignment state of a subject. We identify subspaces that have meaningful semantics. For example, the set permissions explicitly assigned to a subject defines its specified subspace, and constraints define the prohibited subspace. In analyzing these subspaces, we identify two problems: (1) often a significant portion ...

139 Access Control Policies and Specifications: An access control language for web services
Emin Gün Sirer, Ke Wang
June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies SACMAT '02**
Publisher: ACM Press
Full text available: pdf(253.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents an approach for formally specifying and enforcing security policies on web service implementations. Networked services in general, and web services in particular, require extensive amounts of code to ensure that clients respect site-integrity constraints. We provide a language by which these constraints can be expressed and

enforced automatically, portably and efficiently. Security policies in our system are specified in a language based on temporal logic, and are processed b ...

Keywords: access control, web services

140 Technical papers: concurrency: Assuring and evolving concurrent programs: annotations and policy
Aaron Greenhouse, William L. Scherlis
May 2002 **Proceedings of the 24th International Conference on Software Engineering ICSE '02**
Publisher: ACM Press

Full text available: pdf(1.38 MB)

Additional Information: full citation, abstract, references, citings, index terms

Assuring and evolving concurrent programs requires understanding the concurrency-related design decisions used in their implementation. In Java-style shared-memory programs, these decisions include which state is shared, how access to it is regulated, the roles of threads, and the policy that distinguishes desired concurrency from race conditions. These decisions rarely have purely local manifestations in code.In this paper, we use case studies from production Java code to explore the costs and ...